

CA DataMinder

Universal Extractor XML Schema Guide

Release 14.5



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CA Technologies Product References

This document references the following CA Technologies products:

- CA DataMinder

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Chapter 1: Introduction

This document summarizes the schema for output files generated by the XML metadata extractor, a module of the CA DataMinder APM Universal Extractor. It includes an example XML output file.

This section contains the following topics:

[Basic Structure](#) (see page 7)

[Encryption Intervention](#) (see page 8)

Basic Structure

The example XML output file contains a series of <event> elements. Each <event> element can include <trigger>, <audit>, <issue> and <smart_tag> elements. In addition, <issue> elements can themselves contain nested <participant> and <audit> elements, and <audit> elements can contain <auditEmail> elements:

```
<events>
  <event>
    <trigger />
    <audit />
    <issue>
      <participant />
      <audit>
        <auditEmail />
      <audit />
    <issue />
    <smart_tag />
  </event>
</events>
```

All elements within the <event> element are optional.

An <issue> element always contains at least one <audit> element.

All elements can occur multiple times within an event.

Example: There may be several <trigger> elements within an <event>, or several <participant> within an <issue>.

Encryption Intervention

When the trigger intervention is 'Encryption advised', if there are no 'ignored' or 'encrypted' attributes then it means that the user cancelled the operation e.g. for an email event, the email was not sent.

Chapter 2: XML Schema for Metadata Output Files

The XML schema for metadata output files is described in UEExportRecords.xsd. This file is reproduced below. It is available from CA Support at <http://ca.com/support>

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema elementFormDefault="qualified" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
version="1.0">
  <xsd:annotation>
    <xsd:documentation>
      *****
      # © Copyright CA 2010. All rights reserved.
      *****
      #
      # Project:      Universal Extractor
      # Component:    Export Records Schema
      # Author:       Rod Thomas
      # Create Date:  2 November 2005
      # Description:  XML Schema defining the content of an export records file from the UE
      #
      *****
      #
      # Source Code Control Information (do not change this section)
      #
      # Filename:      $Archive: /wigan/UniversalExtractor/schemas/UEExportRecords.xsd $
      # Revision:      $Revision: 15 $
      # Modified by:   $Author: Thorol4 $
      # Modified date: $Modtime: 22/07/10 12:28 $
      #
      *****
    </xsd:documentation>
  </xsd:annotation>
  <xsd:element name="events">
    <xsd:complexType>
      <xsd:choice minOccurs="0" maxOccurs="unbounded">
        <xsd:element ref="event" />
      </xsd:choice>
      <xsd:attribute name="source" use="optional" type="short_string_type"
default="CA DataMinder" />
      <xsd:attribute name="exportTimestamp" use="required" type="xsd:dateTime" />
      <xsd:attribute name="fileno" use="optional" type="xsd:unsignedLong" />
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="event">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="trigger" />
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="audit" />
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="issue" />
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="smart_tag" />
      </xsd:sequence>
      <xsd:attribute name="eventUID" use="required" type="xsd:unsignedLong" />
      <xsd:attribute name="eventTimestamp" use="required" type="xsd:dateTime" />
      <xsd:attribute name="type" use="required" type="event_type" />
    </xsd:complexType>
  </xsd:element>

```

```
        <xsd:attribute name="remoteID" use="required" type="string_type" />
        <xsd:attribute name="subject" use="optional" type="long_string_type" />
        <xsd:attribute name="isPermanent" use="optional" type="xsd:boolean" />
        <xsd:attribute name="expiryTimestamp" use="optional" type="xsd:dateTime" />
        <xsd:attribute name="direction" use="optional" type="direction_type" />
        <xsd:attribute name="channel" use="optional" type="channel_type" />
        <xsd:attribute name="IMNetwork" use="optional" type="string_type" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="trigger">
    <xsd:complexType>
        <xsd:attribute name="name" use="required" type="string_type" />
        <xsd:attribute name="policyText" use="optional" type="string_type" />
        <xsd:attribute name="matchText" use="optional" type="long_string_type" />
        <xsd:attribute name="actionName" use="optional" type="string_type" />
        <xsd:attribute name="transactionValue" use="optional" type="string_type" />
        <xsd:attribute name="transactionLimit" use="optional" type="string_type" />
        <xsd:attribute name="classification" use="optional" type="string_type" />
        <xsd:attribute name="ghost" use="optional" type="xsd:boolean" />
        <xsd:attribute name="performed" use="optional" type="xsd:boolean" />
        <xsd:attribute name="auto" use="optional" type="xsd:boolean" />
        <xsd:attribute name="redirect" use="optional" type="string_type" />
        <xsd:attribute name="intervention" use="optional" type="intervention_type"
/>

        <xsd:attribute name="incomingBlock" use="optional" type="incomingBlock_type"
/>

        <xsd:attribute name="ignored" use="optional" type="xsd:boolean" />
        <xsd:attribute name="personal" use="optional" type="xsd:boolean" />
        <xsd:attribute name="encrypted" use="optional" type="xsd:boolean" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="issue">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element minOccurs="0" maxOccurs="unbounded" ref="participant" />
            <xsd:element minOccurs="1" maxOccurs="unbounded" ref="audit" />
        </xsd:sequence>
        <xsd:attribute name="name" use="required" type="string_type" />
        <xsd:attribute name="participant" use="optional" type="string_type" />
        <!-- Deprecated -->
    </xsd:complexType>
</xsd:element>
<xsd:element name="audit">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element minOccurs="0" maxOccurs="unbounded" ref="auditEmail" />
        </xsd:sequence>
        <xsd:attribute name="type" use="required" type="audit_type" />
        <xsd:attribute name="reviewer" use="required" type="short_string_type" />
```

```

        <xsd:attribute name="field1" use="optional" type="string_type" />
        <xsd:attribute name="comment" use="optional" type="string_type" />
        <xsd:attribute name="expiryTimestamp" use="optional" type="xsd:dateTime" />
        <xsd:attribute name="isPermanent" use="optional" type="xsd:boolean" />
        <xsd:attribute name="field2" use="optional" type="string_type" />
        <xsd:attribute name="field3" use="optional" type="long_string_type" />
        <xsd:attribute name="quarantineStatus" use="optional" type="quarantine_type"
/>

        <xsd:attribute name="participant" use="optional" type="string_type" />
        <xsd:attribute name="issueName" use="optional" type="string_type" />
        <xsd:attribute name="timestamp" use="required" type="xsd:dateTime" />
        <xsd:attribute name="exportFormat" use="optional" type="string_type" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="smart_tag">
    <xsd:complexType>
        <xsd:attribute name="name" use="required" type="string_type" />
        <xsd:attribute name="value" use="required" type="string_type" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="participant">
    <xsd:complexType>
        <xsd:attribute name="address" use="required" type="string_type" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="auditEmail">
    <xsd:complexType>
        <xsd:attribute name="to" use="required" type="string_type" />
        <xsd:attribute name="cc" use="optional" type="string_type" />
        <xsd:attribute name="bcc" use="optional" type="string_type" />
        <xsd:attribute name="subject" use="optional" type="string_type" />
        <xsd:attribute name="body" use="optional" type="long_string_type" />
        <xsd:attribute name="attachment" use="optional" type="attachment_type" />
        <xsd:attribute name="readReceipt" use="optional" type="xsd:boolean" />
        <xsd:attribute name="priority" use="optional" type="priority_type" />
    </xsd:complexType>
</xsd:element>
<!-- Type Definitions -->
<xsd:simpleType name="string_type">
    <xsd:restriction base="xsd:string">
        <xsd:minLength value="0" />
        <xsd:maxLength value="255" />
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="short_string_type">
    <xsd:restriction base="xsd:string">
        <xsd:minLength value="0" />
        <xsd:maxLength value="128" />
    </xsd:restriction>

```

```
</xsd:simpleType>
<xsd:simpleType name="long_string_type">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0" />
    <xsd:maxLength value="4000" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="event_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Web" />
    <xsd:enumeration value="E-mail" />
    <xsd:enumeration value="IM" />
    <xsd:enumeration value="Appmon" />
    <xsd:enumeration value="Bloomberg" />
    <xsd:enumeration value="IM as E-mail" />
    <xsd:enumeration value="eFax" />
    <xsd:enumeration value="File" />
    <xsd:enumeration value="File:Exchange" />
    <xsd:enumeration value="File:Sharepoint" />
    <xsd:enumeration value="File:Database" />
    <xsd:enumeration value="File:Network" />
    <xsd:enumeration value="File:Save" />
    <xsd:enumeration value="File:Print" />
    <xsd:enumeration value="Unknown" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="direction_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Incoming" />
    <xsd:enumeration value="Outgoing" />
    <xsd:enumeration value="Webmail" />
    <xsd:enumeration value="Unknown" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="channel_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Webmail" />
    <xsd:enumeration value="Web" />
    <xsd:enumeration value="FTP" />
    <xsd:enumeration value="NNTP" />
    <xsd:enumeration value="IM" />
    <xsd:enumeration value="Unknown" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="intervention_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Block Quietly" />
    <xsd:enumeration value="Block with Notification" />
    <xsd:enumeration value="Warn" />
  </xsd:restriction>
</xsd:simpleType>
```

```

        <xsd:enumeration value="Warn with Personal" />
        <xsd:enumeration value="None" />
        <xsd:enumeration value="Inform" />
        <xsd:enumeration value="Notify" />
        <xsd:enumeration value="Quarantine Quietly" />
        <xsd:enumeration value="Quarantine with Notification" />
        <xsd:enumeration value="Legal Hold Notification" />
        <xsd:enumeration value="Categorize single" />
        <xsd:enumeration value="Categorize multiple" />
        <xsd:enumeration value="No further actions" />
        <xsd:enumeration value="Encryption advised" />
        <xsd:enumeration value="Encryption enforced" />
        <xsd:enumeration value="Unknown" />
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="incomingBlock_type">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Deleted" />
        <xsd:enumeration value="Content Replaced" />
        <xsd:enumeration value="None" />
        <xsd:enumeration value="Unknown" />
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="audit_type">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Viewed" />
        <xsd:enumeration value="Status Changed" />
        <xsd:enumeration value="Comment" />
        <xsd:enumeration value="Expiry Date Changed" />
        <xsd:enumeration value="Permanent Flag Changed" />
        <xsd:enumeration value="Mailed Event" />
        <xsd:enumeration value="Classifier Changed" />
        <xsd:enumeration value="Action Changed" />
        <xsd:enumeration value="Quarantine Changed" />
        <xsd:enumeration value="Issue Participant Changed" />
        <xsd:enumeration value="Issue Name Changed" />
        <xsd:enumeration value="Issue Created" />
        <xsd:enumeration value="Event Exported" />
        <xsd:enumeration value="Event Printed" />
        <xsd:enumeration value="Participant Added" />
        <xsd:enumeration value="Participant Removed" />
        <xsd:enumeration value="Unknown" />
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="quarantine_type">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Reject" />
        <xsd:enumeration value="Release" />
        <xsd:enumeration value="Success" />
    </xsd:restriction>
</xsd:simpleType>

```

```
        <xsd:enumeration value="Fail/Retry" />
        <xsd:enumeration value="Fail/Block" />
        <xsd:enumeration value="Unknown" />
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="attachment_type">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="EVL" />
        <xsd:enumeration value="MSG" />
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="priority_type">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Low" />
        <xsd:enumeration value="Normal" />
        <xsd:enumeration value="Urgent" />
        <xsd:enumeration value="Unknown" />
    </xsd:restriction>
</xsd:simpleType>
</xsd:schema>
```

Chapter 3: Example XML Metadata Output File

```
<?xml version="1.0" encoding="UTF-8" ?>

<events source="CA DataMinder" exportTimestamp="2005-11-10T12:23:53" fileno="1">

    <event eventUID="1021022"
        eventTimestamp="2005-05-13T00:52:31"
        type="E-mail"
        remoteID="0A0D2E01B7CC6241AA3B0C33746F54E3"
        subject="Prospects for Q3"
        direction="Outgoing"/>

    <event eventUID="1021023"
        eventTimestamp="2005-05-24T15:28:45"
        type="E-mail"
        remoteID="0A0CF0A2DECA5045B64B5138F22F4A27"
        subject="New prospect!!">
        <audit type="Viewed"
            reviewer="SRimmel"
            timestamp="2005-11-08T10:12:33" />
    </event>
```

```
<event eventUID="1021024"
  eventTimestamp="2005-05-23T09:38:46"
  type="E-mail"
  remoteID="0A0D578C3B19FA44B275378082A07299"
  subject="FW: Prospects for Q3"
  isPermanent="false"
  expiryTimestamp="2006-05-23T09:38:46" />

<event eventUID="1021025"
  eventTimestamp="2005-05-22T01:26:29"
  type="E-mail"
  remoteID="0A0A72C54DB8BE4EA702EB9119F0D95A"
  subject="RE: Prospects for Q3">
  <audit type="Viewed"
    reviewer="SRimmel"
    timestamp="2005-05-24T09:51:46" />
  <issue name="Refers to ongoing lawsuit"
    participant="All">
    <audit type="Issue Created"
      reviewer="SRimmel"
      timestamp="2005-05-24T17:10:28" />
  </issue>
  <issue name="Client attorney privilege"
    participant="FSchaeffer">
    <audit type="Issue Created"
      reviewer="SRimmel"
      timestamp="2005-05-24T17:10:28" />
  </issue>
</event>

<event eventUID="1021028"
  eventTimestamp="2006-05-26T10:26:10"
  type="E-mail"
  remoteID="03">
  <trigger name="Unauthorized reference to Unipraxis IPO"
    policyText="IPO,initial public offering"
    matchText="IPO"
    actionName="Block unauthorized message"
    performed="true"
    intervention="Block with Notification" />
</event>
```

```
<event eventUID="1021029"
  eventTimestamp="2006-05-26T10:27:40"
  type="E-mail"
  remoteID="02">
  <trigger name="Unauthorized image attachments"
    policyText="*"
    matchText=".jpg,*.gif,*.bmp"
    actionName="Warn sender"
    performed="true"
    intervention="Warn" />
</event>

<event eventUID="1021030"
  eventTimestamp="2006-05-26T10:30:37"
  type="E-mail"
  remoteID="01">
  <trigger name="Third Party Copyright Classifier"
    policyText="Copyright ©2006 Orchestria"
    matchText="scored:5 required: 4"
    actionName="Block unauthorized message"
    classification="Generic:Third Party Copyrighted Material"
    performed="true"
    intervention="Block with Notification" />
</event>

<event eventUID="1021026"
  eventTimestamp="2005-05-23T13:04:58"
  type="E-mail"
  remoteID="0A0A56EF873FB24A81825427FAC79404"
  subject="US sales figures">
  <audit type="Viewed"
    reviewer="SRimmel"
    timestamp="2005-05-24T12:33:44" />
  <audit type="Quarantine Changed"
    reviewer="SRimmel"
    quarantineStatus="Reject"
    timestamp="2005-05-24T16:42:15" />
  <audit type="Permanent Flag Changed"
    reviewer="SRimmel"
    isPermanent="true"
    timestamp="2005-05-26T10:56:29" />
```

```

    <audit type="Comment"
      reviewer="SRimmel"
      comment="Retained for compliance review"
      timestamp="2005-05-26T10:56:29" />
    <audit type="Expiry Date Changed"
      reviewer="SRimmel"
      expiryTimestamp="2005-08-25T00:00:00"
      timestamp="2005-05-26T10:56:29" />
    <audit type="Mailed Event"
      reviewer="SRimmel"
      timestamp="2005-05-26T10:57:11">
      <auditEmail to="Lynda Steel"
        subject="Your urgent attention is required"
        body="Hi Lyn, the attached mail is a possible 472
violation.

                What do you think? Spencer"
        attachment="EVL"
        priority="Normal"
        readReceipt="true" />
      </audit>
    </event>

  <event eventUID="1021027"
    eventTimestamp="2005-05-22T09:08:56"
    type="E-mail"
    remoteID="0A0D0C4AF3FA044CAB6C69BFDBE150CE"
    subject="Outstanding market opportunity">
    <audit type="Viewed"
      reviewer="SRimmel"
      timestamp="2005-05-24T09:51:47" />
    <issue name="Client attorney privilege"
      participant="All">
      <audit type="Action Changed"
        reviewer="SRimmel"
        field3="Referred to compliance officer"
        timestamp="2005-05-25T17:10:28" />
      <audit type="Status Changed"
        reviewer="SRimmel"
        field1="Referred"
        timestamp="2005-05-25T17:10:28" />
    </issue>
  </event>

```

```
<audit type="Issue Created"
  reviewer="SRimmel"
  timestamp="2005-05-25T17:10:28" />
<audit type="Classifier Changed"
  reviewer="SRimmel"
  field2="Internal User Only"
  timestamp="2005-05-25T17:10:28" />
<audit type="Mailed Event"
  reviewer="SRimmel"
  timestamp="2005-05-26T10:57:11">
  <auditEmail to="Compliance Officer"
    subject="Urgent! Possible compliance violation"
    cc="fschaeffer"
    body="***PLEASE REVIEW THE ATTACHED MAIL
URGENTLY***
                                Please review and advise the Compliance
Officer
                                of any action you take"
    priority="Urgent" />
  </audit>
</issue>
</event>
</events>
```

Appendix A: Accessibility Features

CA Technologies is committed to ensuring that all customers, regardless of ability, can successfully use its products and supporting documentation to accomplish vital business tasks. This section outlines the accessibility features that are supported by CA DataMinder.

Display

To increase visibility on your computer display, you can adjust the following options:

Font style, color, and size of items

Defines font color, size, and other visual combinations.

The CA DataMinder iConsole also supports a High Visibility mode. This increases the size of text and images in the iConsole screens.

Screen resolution

Defines the pixel count to enlarge objects on the screen.

Cursor width and blink rate

Defines the cursor width or blink rate, which makes the cursor easier to find or minimize its blinking.

Icon size

Defines the size of icons. You can make icons larger for visibility or smaller for increased screen space.

High contrast schemes

Defines color combinations. You can select colors that are easier to see.

Sound

Use sound as a visual alternative or to make computer sounds easier to hear or distinguish by adjusting the following options:

Volume

Sets the computer sound up or down.

Text-to-Speech

Sets the computer's hear command options and text read aloud.

Warnings

Defines visual warnings.

Notices

Defines the aural or visual cues when accessibility features are turned on or off.

Schemes

Associates computer sounds with specific system events.

Captions

Displays captions for speech and sounds.

Keyboard

You can make the following keyboard adjustments:

Repeat Rate

Defines how quickly a character repeats when a key is struck.

Tones

Defines tones when pressing certain keys.

Sticky Keys

Defines the modifier key, such as Shift, Ctrl, Alt, or the Windows Logo key, for shortcut key combinations. Sticky keys remain active until another key is pressed.

Mouse

You can use the following options to make your mouse faster and easier to use:

Click Speed

Defines how fast to click the mouse button to make a selection.

Click Lock

Sets the mouse to highlight or drag without holding down the mouse button.

Reverse Action

Sets the reverse function controlled by the left and right mouse keys.

Blink Rate

Defines how fast the cursor blinks or if it blinks at all.

Pointer Options

Let you do the following:

- Hide the pointer while typing
- Show the location of the pointer
- Set the speed that the pointer moves on the screen
- Choose the pointer's size and color for increased visibility
- Move the pointer to a default location in a dialog box